



LEAPTON
SOLAR

Monofacial

Bifacial

LP182*182-M-60-MH

Rated Power 450-465W



MBB Cell
New circuit design, lower internal current, lower internal resistance loss.



Low Light Features
Higher performance under low light environment.



Higher Output Power
Module adopts 120 pcs of 182*182mm half cells, the maximum power can reach 465W.



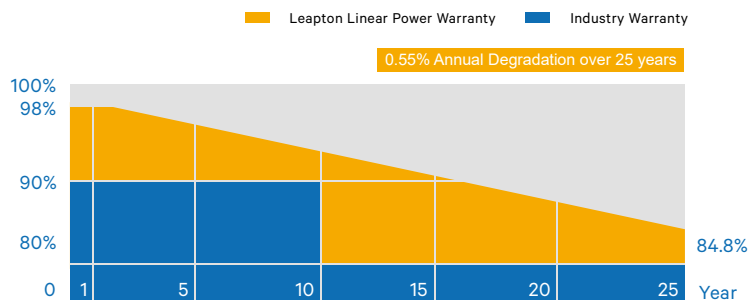
PID Protection
Ensure the attenuation probability caused by PID phenomenon is minimized.



Harsh Environmental Adaptability
Strict salt spray and ammonia corrosion test by TUV Nord.



Load Capacity
Mechanical load tests including wind load 2400 Pa and snow load 5400 Pa done by TUV Nord.



*J-PEC Product



IEC 61215-2: 2016
IEC 61730-2: 2016

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Manufacturer : Leapton Solar (Changshu) Co., Ltd.

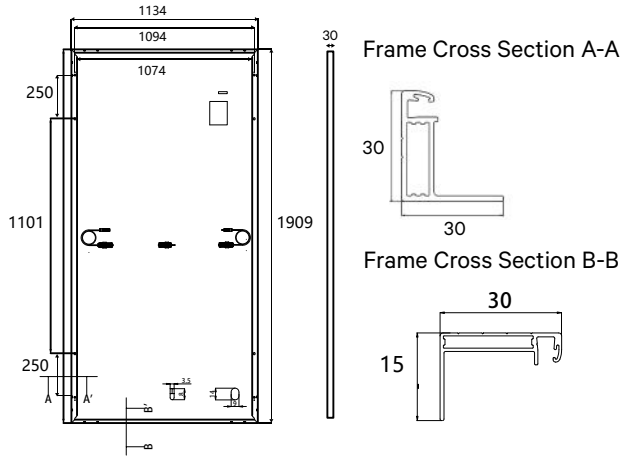
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MECHANICAL DIAGRAMS



SPECIFICATIONS

Weight	23kg
Dimensions	1909mm*1134mm*30mm
Cell Dimensions	182*182mm
Cell Amount	60*2 pcs
Maximum System Voltage	1500V
Junction Box	IP68
Frame	Aluminum Alloy
Cable	4mm ² , N 1200mm/P 1200mm or customized length
Connector	MC4 compatible
Application Level	Class A

ELECTRICAL PARAMETERS AT STC

Power	450W	455W	460W	465W
Open Circuit Voltage	41.40V	41.60V	41.80V	42.00V
Short Circuit Current	13.68A	13.73A	13.78A	13.83A
Maximum Power Voltage	34.70V	34.90V	35.20V	35.40V
Maximum Power Current	12.96A	13.02A	13.08A	13.14A
Module Efficiency	20.79%	21.02%	21.25%	21.48%

* Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

ELECTRICAL PARAMETERS AT NMOT

Power	331W	335W	339W	343W
Open Circuit Voltage	38.68V	38.88V	39.08V	39.28V
Short Circuit Current	10.78A	10.83A	10.88A	10.93A
Maximum Power Voltage	32.34V	32.54V	32.74V	32.94V
Maximum Power Current	10.24A	10.30A	10.35A	10.40A
Module Efficiency	15.29%	15.47%	15.66%	15.84%

* Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

TEMPERATURE CHARACTERISTICS

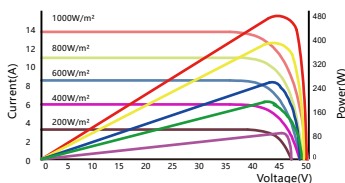
NMOT	41±3°C	Temp Coefficient of ISC	+0.05%/°C
Temp Coefficient of VOC	-0.28%/°C	Temp Coefficient of Pmax	-0.36%/°C

PACKING CONFIGURATION

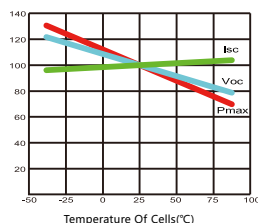
Modules/Pallet	36 Pieces	Modules/40'Container	864 Pieces
Packing Description	24 Pallets, Total=(36+36)x12=864 Pieces		

CHARACTERISTICS

LP182*182-M-60-MH-450W



LP182*182-M-60-MH-450W



MAXIMUM RATING

Output Tolerance	0~+5W
Operating Temperature	-40°C~+85°C
Wind Load/Snow Load	2400pa/5400pa
Fuse Current	25A



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